



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

NOV 4 1991

SUBJECT: Determination of a Threat to Public Health and Welfare
and to the Environment at the Courtaulds Packaging Site

FROM: *for* Jamie Fenske, On-Scene Coordinator *CLK*
Western Response Section (3HW32)

TO: Thomas C. Voltaggio, Director
Hazardous Waste Management Division (3HW00)

THRU: Charles Kleeman, Chief *Charles Kleeman*
Western Response Section (3HW32)

1. **Site Name and Location:** Courtaulds Packaging Site
Wheeling
Ohio County, West Virginia
2. **Owner/Operator:** Knight Engineering & Plastics
Leo Bollin, General Manager
3. **Population Information:** Two cities are within a one-mile
radius of the site; they are
Wheeling (population - 43,000),
West Virginia, and Martins Ferry
(population - 7,992), Ohio
4. **Access:** Unrestricted access via urban streets adjacent to
the property
5. **Coordination With Other Authorities:**
West Virginia Division of Natural Resources.
6. **Site Background and Characteristics:**

The Courtaulds Packaging Site is currently used by Courtaulds Packaging to manufacture plastic caps. The site, which Courtaulds purchased in July of 1989, formerly belonged to the Wheeling Stamping Company, which used the site to manufacture metal tubes for toothpaste and to produce friction, milk, beer and oil cans. The major concern at this site is lead-contaminated soil.

Upon purchasing the plant, Courtaulds retained the services of First Environment to conduct a pre-acquisition environmental assessment of the facility. Lead levels as

ARI00006

high as 20,000 parts per million were identified at the site. First Environment found lead in soil on all sides of the building during their assessment.

The site consists of approximately 9 acres surrounded on the north, east, and south by a residential area. The site is bordered on the west by the Ohio River, which is used for municipal drinking water supplies, recreation, and transportation.

A total of 10 residences, all of them using public potable water supplies, lie adjacent to the site. The nearest house lies within 100 feet of the highest contamination at the site. An elementary school lies approximately 1000 feet north of the site. Access to the site is unrestricted.

On September 23, 1991, EPA performed a removal assessment of the site. EPA's sampling focused on the south side of the building where outside vents had existed in conjunction with the smelting operation inside. The following table shows the concentration (in parts per million) of lead found in soil samples collected during this assessment:

SAMPLE NUMBER	LOCATION	RESULTS IN PPM
S-1	E-W CORNER	1,900
S-2	RESIDENCE	800
S-3	RESIDENCE	250
S-4	RESIDENCE	40
S-5	S-W CORNER	860
S-6	SOUTH SIDE	13,800
S-7	SOUTH SIDE	14,800
S-8	DUP. OF S-7	25,000
S-9	SOUTH SIDE	21,000
S-10	SOUTH SIDE	3,300
S-11	S-E CORNER	330
S-12	BACKGROUND	15

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Sampling locations can be identified on the attached sampling map. Residence S-2 is on the south side of the site and adjacent to sampling locations S-6 through S-11. Samples S1, S2, S5 thru S10 are all above the EPA action level for cleanup at 500 ppm.

Lead is considered to be a hazardous substance pursuant to Section 101(14) of CERCLA.

8. Threats to Public Health or Welfare or the Environment (references are to the National Contingency Plan (NCP), 40 CFR, Part 300):

300.415 (b) (2) (i)

"Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants"

Access to surface soil contamination at the site is unrestricted. Airborne contaminated soil particles from unvegetated areas of the site may pose a direct contact, inhalation, and ingestion threat to persons entering the site. Soil of residential property adjacent to the site is contaminated with 800 parts per million of lead.

300.415 (b) (2) (ii)

"Actual or potential contamination of drinking water supplies or sensitive ecosystems"

Contamination may migrate into the Ohio River, which is used as a source of public drinking water and for recreational purposes.

300.415 (b) (2) (iv)

"High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate"

Elevated levels of lead contamination (as high as 25,000 parts per million in one location) are present in the soils onsite. The site lies within the 100-year floodplain of the Ohio River, and migration of contamination to the river by means of surface water runoff is possible.

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300.415 (b) (2) (v)

"Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released"

Runoff from local precipitation may cause the contaminants present onsite to continue to migrate toward the Ohio River. During periods of dry, windy weather, contamination may also be spread by the movement of airborne contaminated soil particles from unvegetated portions of the site.

300.415 (b) (2) (vii)

"The availability of other appropriate Federal or State response mechanisms to respond to the release"

The West Virginia Division of Natural Resources does not possess the resources to undertake a removal of this magnitude at this time.

9. List of Supporting Documents:

- a. POLREPs 1 & 2 - Courtaulds Packaging Site, prepared by Jamie Fenske, OSC.
- b. Photographic documentation of Courtaulds Packaging Site, prepared by EPA/TAT Region III for Jamie Fenske, OSC.
- c. Analytical results from sampling assessment prepared by EPA/TAT Region III and Technical Testing Laboratories for Jamie Fenske, OSC.

10. Recommendation:

Because conditions at the Courtaulds Packaging Site meet the NCP criteria for a removal action, as indicated above, I have determined that a threat to the public health and welfare and to the environment exists at the site, and that a Removal Action is warranted. I, therefore, recommend that the site be found to pose an imminent and substantial endangerment to public health, welfare, and the environment.

11. Action by the Approving Official:

I have reviewed the above-stated facts and based upon these facts and the information compiled in the document described above, I hereby determine that the release or threatened

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release of hazardous substances and/or from the site presents an imminent and substantial endangerment to public health, welfare, and the environment.


Thomas C. Voltaggio, Director
Hazardous Waste Management Division

11/1/91
Date

Attachments: POLREPs 1 & 2
Photographic Documentation
Analytical Results
Maps & Drawing

AR100010

POLREP #2

COURTAULDS LEAD SITE

WHEELING, OHIO COUNTY, WV 26003

ATTN: CHARLIE KLEEMAN, GREGG CRYSTALL, STEPHEN LUFTIG

I. SITUATION (1600 HOURS, MONDAY, 9/23/91)

- A. EPA AND TAT TRAVELED TO THE SITE TO PERFORM AN ASSESSMENT OF THE COURTAULDS PACKAGING SITE.
- B. PERSONNEL ON-SCENE: EPA-1, TAT-2, COURTAULDS-2, ATEC-2
- C. WEATHER CONDITIONS: CLOUDY WITH CONSTANT DRIZZLE, TEMPERATURE IN THE MID 70'S.

II. ACTIONS TAKEN

- A. OSC AND TAT ARRIVED ON SITE AT 0830 HOURS, 9/23/91 TO PERFORM AN ASSESSMENT. OSC AND TAT MET WITH COURTAULDS PACKAGING (LEE HENDERSHOT AND LEO BOLLIN) AND ATEC ENVIRONMENTAL CONSULTANTS (DARRELL ADKINS AND CHARLENE WILCOX). COURTAULDS PACKAGING HAD INFORMED THE OSC THAT AREAS OF CONTAMINATION IDENTIFIED BY THE ATEC ASSESSMENT WERE AREAS ADJACENT TO THE TINNING PROCESS WHEN THE PLANT WAS OWNED BY WARWOOD PACKAGING.
- B. AT 0900 HOURS, OSC AND LEO BOLLIN VISITED THREE RESIDENCES TO INFORM RESIDENTS THAT SAMPLES WERE TO BE TAKEN BY TAT AND THAT THE OSC WOULD ANSWER ANY QUESTIONS. TAT STARTED SAMPLING OF THE SITE.
- C. OSC FENSKE DEPARTED SITE AT 1000 HOURS, 9/23/91.
- D. TAT COMPLETED SAMPLING OF THE SITE AT 1100 HOURS, A TOTAL OF 12 SAMPLES FOR LEAD ANALYSIS WERE TAKEN (3- RESIDENCES, 1-BACKGROUND, AND 8-ONSITE). ALL SAMPLES TAKEN, WERE SPLIT AND GIVEN TO ATEC.
- E. TAT INFORMED COURTAULDS ON WHERE SAMPLES WERE TAKEN AT 1115 HOURS AND DEPARTED SITE AT 1135 HOURS.
- F. SAMPLES WERE PREPARED FOR SHIPMENT AND SENT TO TECHNICAL TESTING LABS FOR ANALYSIS AND A ONE WEEK TURNAROUND TIME.

III. FUTURE PLANS

- A. OSC AND TAT TO REVIEW ANALYTICAL RESULTS UPON RECEIPT FROM THE LAB.
- B. OSC FENSKE TO CONTINUE TO UPDATE EOSC MANNING-ZENONE ON SITE STATUS.

JAMIE FENSKE, OSC
U.S. EPA REGION III
WHEELING, WV

CAROL MANNING-ZENONE, EOSC
U.S. EPA REGION III
PHILADELPHIA, PA

*Sent All In One
9/25/91 L.H.*

AR100011

ALL In One
9/25/91 KCM

POLREP #1

COURTAULDS LEAD SITE

WHEELING, OHIO COUNTY, WV 26003

ATTN: CHARLIE KLEEMAN, GREGORY CRYSTALL, STEPHEN LUFTIG

I. SITUATION (1600 HOURS, FRIDAY, AUGUST 23, 1991)

- A. DURING A BUYOUT AT THE FORMER WHEELING STAMPING PLANT, COURTAULDS PACKAGING HAD AN ENVIRONMENTAL ASSESSMENT CONDUCTED OF THE SITE. THE ASSESSMENT REVEALED LEAD IN THE SOIL SURROUNDING THE FACILITY UP TO 20,000 PPM. LEAD WAS UTILIZED ON SITE FROM THE LATE 1800'S UNTIL 1976. DURING A ROUTINE RCRA INSPECTION, THE WVDNR (GASTON) DISCOVERED THE ASSESSMENT RESULTS AND FORWARDED THEM TO OSC FENSKE.
- B. PERSONNEL ON-SCENE: EPA-1, TAT-0, COURTAULDS-2.
- C. WEATHER CONDITIONS: MOSTLY SUNNY, TEMPERATURES IN THE MID-80'S.

II. ACTIONS TAKEN

- A. ON FRIDAY, AUGUST 23, 1991, OSC FENSKE MET WITH REPRESENTATIVES OF COURTAULDS. OSC FENSKE EXPLAINED CURRENT EPA LEAD REMOVAL GUIDELINES AND ALSO INFORMED COURTAULDS ADDITIONAL SAMPLES ARE NECESSARY TO FURTHER DELINEATE THE EXTENT OF LEAD CONTAMINATION ON-SITE.
- B. OSC ALSO REQUESTED ADDITIONAL BACKGROUND INFORMATION ON THE SITE AND A WORKPLAN FOR THE NEXT BATTERY OF SAMPLES TO BE COLLECTED.

III. FUTURE PLANS

- A. OSC TO AWAIT ADDITIONAL INFORMATION ON THE SITE.
- B. OSC FENSKE TO UPDATE EOSC MANNING-ZENONE ON SITE STATUS.
- C. OSC TO REQUEST TAT TO ALSO COLLECT LEAD SAMPLES ON-SITE.

**JAMIE FENSKE, OSC
U.S. EPA - REGION III
WHEELING, WV**

**CAROL MANNING-ZENONE, EOSC
U.S. EPA - REGION III
PHILADELPHIA, PA**

ARI00012



Courtaulds Packaging Site
Wheeling, Ohio County, WV
Photo Taken: 9/23/91

Remarks: This photo was taken on 6th Street on the south side of the site. Analysis of samples collected during the assessment of 9/23/91 indicate that this area has the highest levels of lead contamination. The hedge and coniferous tree on the right side of the photo are near the spot where sample S-2 was taken. This sample was found to contain 800 ppm of lead contamination. Soil samples (S-6 through S-10) collected from the area depicted in the center of the photo showed the highest levels of contamination (greater than 20,000 ppm).

AR100013



5 Underwood Court, Delran, NJ 08075 609-461-4003

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-WO-0036

MEMORANDUM

TO: Jamie Fenske, OSC, EPA Region III TDD #9108-15
Western Response Section PCS #1777

THRU: Mike Zickler, TATL, Region III *WZ*

FROM: Marian Murphy, TAT Region III *MM*

SUBJECT: Courtaulds Packaging Samples Analytical Review

DATE: October 4, 1991

This report covers the review of the analytical data package for twelve (12) soil samples collected at the Courtaulds Packaging Site on September 23, 1991. The samples were received at Technical Testing Laboratories on September 24, 1991. The analysis requested was total lead.

ANALYTICAL METHODOLOGY

The samples were analyzed for total lead. The samples were prepared in accordance with EPA Method 3050. The samples were analyzed by EPA Method 6010.

- Signed chain-of-custody records were received.
- The instrument calibration was satisfactory. The interelement corrections were properly applied. The spike recoveries were not within acceptable range, however, the sample concentration was greater than four (4) times the spike concentration, so no data was qualified. The laboratory analyzed samples outside the instrument linear range and did not reanalyze diluted samples, therefore, the sample concentrations should be considered approximate for any value over 250 mg/kg.

CONCLUSION

Accept samples S-3, S-4, and S-12; the remaining samples should be considered approximate since they were outside the instrument's linear range.

MM/ar

Roy F. Weston, Inc.

MAJOR PROGRAMS DIVISION

In Association with Foster Wheeler Environmental Services, Inc., Resource Applications, Inc., C.C. Johnson & Malhotra, P.C., R.E. Sarriera Associates, and GRB Environmental Services, Inc.

AP 100014

ROY F. WESTON, INC.
PROJECT #1777-COURTAULDS PACKAGING
TTL# N8085 through N8096

Please find enclosed with this package the total lead results and the QA/QC for the following samples:

<u>TTL #</u>	<u>STATION #</u>	<u>STATION LOCATION</u>
N8085	S-1	S-W Corner
N8086	S-2	Yellow House
N8087	S-3	White-Yellow House
N8088	S-4	Red Fence
N8089	S-5	S-W Corner
N8090	S-6	Southside
N8091	S-7	Southside
N8092	S-8	Southside
N8093	S-9	Southside
N8094	S-10	Southside
N8095	S-11	Southside
N8096	S-12	Background

If you have any questions concerning this package, please feel free to call us at 304-346-0725. We at Technical Testing Laboratories appreciate your business.

AR100015

TECHNICAL TESTING LABORATORIES





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LABORATORY ANALYSIS REPORT

Ray E. Weston-Gairan, NJ/Murphy, Marian

Laboratory Number N0085

Respectfully
Submitted

37A, 3-1 S-W CORNER GRAB
PROJ: 1777 COURTAULDS PACKAGING

Date Sampled 09/23/91 3:15
Date Received 09/24/91

T. M. Wright

Sampled by CHARLES FISHER
PO # 15-1510

092791 1944

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED DATE/TIME/ANALYST
Lead (Total)	1900	10	MG/KG	SW6010	09/25/91 10:31 AM

REF: USEPA: Test Methods For Evaluating Solid Waste: SW-846, 3rd Ed. NOV. 1986.

1250 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 304-344-0725
4845 BENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 301-247-7400
4440 GLEN ESTE-WITHAMSVILLE ROAD, SUITE 900, CINCINNATI, OHIO 45246 — TELEPHONE 513-752-0800

AR100016



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JRM LAR-TL



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LABORATORY ANALYSIS REPORT

ROY F. Weston-Delran, NJ/Murphy, Marian

Laboratory Number H8866

Respectfully
Submitted:

STA. 3-2 YELLOW HOUSE GRAB
PROJ:1777 COURTAULDS PACKAGING

Date Sampled 09/23/91 11:30
Date Received 09/24/91

T. M. Wigh

Sampled by CHARLES FISHER
ID M 16-1510

092732 199

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED DATE/TIME/ANALYST
Lead (Total)	300	10	MG/KG	SW6010	09/26/91 10:35 TM

REF: USEPA Test Methods For Evaluating Solid Waste; SW-846, 3rd Ed.; Nov. 1986.

1226 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 304-348-0725
4849 BENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 311-347-7400
4440 GLEN ESTE WITHAMSVILLE ROAD, SUITE 800, CINCINNATI, OHIO 45248 — TELEPHONE 513-758-0080



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LABORATORY ANALYSIS REPORT

Mr. F. Weston-Delran, NJ/Murphy, Marian

LABORATORY NUMBER: MS007

Respectfully
Submitted:

TA. 3-3 WHITE YELLOW HOUSE GRAB
KJ:1777 COURTAULDS PACKAGING

Date Sampled 09/23/91 9:35
Date Received 09/24/91

T. M. Wright
092791 1944

Sampled by CHARLES FISHER
O # 16-1510

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED DATE/TIME/ANALYST
Lead (total)	250	10	MG/KG	SW6010	09/26/91 10:39 TH

REF: USEPA; Test Methods For Evaluating Solid Waste; SW-846, 3rd Ed. Nov. 1986.

ARI00018

1200 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 304-340-0725
4843 BENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 301-247-7400
4440 GLEN ESTE-WITHAMSVILLE ROAD, SUITE 800, CINCINNATI, OHIO 45246 — TELEPHONE 513-752-0000



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LABORATORY ANALYSIS REPORT

Roy F. Weston-Delton, NJ/Murphy, Marian

Laboratory Number N8888

Respectfully
Submitted:

STA: S-4 RED FENCE GRAB
PROJ: 1777 COURTAULDS PACKAGING

Date Sampled 09/23/91 9:40
Date Received 09/24/91

Sampled by CHARLES FISHER
PU # 16-1518

092731 1999

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED DATE/TIME/ANALYST
Lead (total)	40	10	MG/KG	SW6010	09/26/91 10:42 IN

REF: USEPA; Test Methods For Evaluating Solid Waste; SW-846, 3rd Ed.; Nov, 1986.

1256 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 304-348-0723
4843 BENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 301-347-7400
4440 GLEN ESTE-WITHAMSVILLE ROAD, SUITE 900, CINCINNATI, OHIO 45246 — TELEPHONE 513-752-0000

AR100019

JAN LAB-TTL



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LABORATORY ANALYSIS REPORT

Roy F. Weston-Velran, NJ/Murphy, Marian

Laboratory Number N8089

Respectfully
Submitted

STA: S-5 S-W CORNER GRAB
PROJ: 1777 COURTAULDS PACKAGING

Date Sampled 09/23/91 9:05

Date Received 09/24/91

T. M. Wright

Sampled by CHARLES FISHER
PU # 16-1510

092771 1344

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED DATE/TIME/ANALYST
Lead (Total)	860	10	MG/KG	SW6010	09/26/91 10:46 TM

REF: USEPA: Test Methods For Evaluating Solid Waste; SW-846, 3rd Ed. (Nov. 1986).

AR100020

1250 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 304-348-0728

4043 BENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 301-247-7400

4440 GLEN ESTE-WITHAMSVILLE ROAD, SUITE 900, CINCINNATI, OHIO 45246 — TELEPHONE 513-752-0000



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LABORATORY ANALYSIS REPORT

Roy F. Weston-Delran, NJ/Murphy, Marian

Laboratory Number M0290

Respectfully
Submitted:

STA. 5-6 SOUTH SIDE GRAB
PROJ:1777 CORTAULDS PACKAGING

Date Sampled 09/23/91 10:00

Date Received 09/24/91

Sampled by CHARLES FISHER
FO N 16-1510

092791 194

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED DATE/TIME/ANALYST
Lead (Total)	13000	10	MG/KG	SW6010	09/26/91 11:04 AM

REF: USEPA; Test Methods For Evaluating Solid Waste; SW-846; 3rd Ed.; Nov, 1986.

ARI00021

1258 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 304-348-0725
4643 JENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 301-247-7400
4440 GLEN ESTE WITHAMSVILLE ROAD, SUITE 800, CINCINNATI, OHIO 45245 — TELEPHONE 513-752-0000



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LABORATORY ANALYSIS REPORT

Rev F. Weston-Delran, NJ/Murphy, Marian

Laboratory Number N8891

Respectfully
Submitted

STA. 3-7 SOUTH SIDE GRAB
-RQJ:1777 COURTAULDS PACKAGING

Date Sampled 09/23/91 10:10

Date Received 09/24/91

Sampled by CHARLES FISHER
PO # 16-1510

092791 134

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED DATE/TIME/ANALYST
Lead (Total)	14800	10	MG/KG	SW6010	09/26/91 11:11 TM

REF: USEPA; Test Methods For Evaluating Solid Waste; SW-846, 3rd Ed.; Nov, 1986.

AR100022

1264 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 304-348-0725
4843 BENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 301-247-7400
4440 GLEN ESTE-WITHAMSVILLE ROAD, SUITE 900, CINCINNATI, OHIO 45245 — TELEPHONE 513-752-8888



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CRM LAB-TL



TECHNICAL TESTING LABORATORIES

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LABORATORY ANALYSIS REPORT

Roy F. Weston-Delran, NJ/Murphy, Marian

Laboratory Number N8892

Respectfully
Submitted:

STA. 5-8 SOUTH SIDE GRAB
PROJ:1777 COURTAULDS PACKAGING

Date Sampled 09/23/91 18:15
Date Received 09/24/91

J. M. Wright

Sampled by CHARLES FISHER.
PO # 16-1518

092791 194

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED DATE/TIME/ANALYST
Lead(Total)	25800	10	MG/KG	SW6010	09/26/91 11:15 AM

REF: USEPA; Test Methods For Evaluating Solid Waste; SW-846, 3rd Ed.; Nov, 1986.

1256 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 304-344-0725
4843 BENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 301-347-7400
4440 GLEN ESTE-WITHAMSVILLE ROAD, SUITE 900, CINCINNATI, OHIO 45246 — TELEPHONE 513-782-8888

AR100023



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LABORATORY ANALYSIS REPORT

Roy F. Weston-Delran, NJ/Murphy, Marian

Laboratory Number N8093

Respectfully
Submitted:

STA. S-9 SOUTH SIDE GRAB
PKUJ:1777 COURTAULDS PACKAGING

Date Sampled 09/23/91 10:20

Date Received 09/24/91

T. N. Wright

Sampled by CHARLES FISHER
PO # 16-1518

092791 1944

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED DATE/TIME/ANALYST
Lead (Total)	21000	10	MG/KG	SW6010	09/26/91 11:35 PM

REF: USEPA; Test Methods For Evaluating Solid Waste; SW-846, 3rd Ed.; Nov, 1986.

1256 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 304-348-0725
4843 BENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 301-847-7400
4440 GLEN ESTE-WITHAMSVILLE ROAD, SUITE 900, CINCINNATI, OHIO 45246 — TELEPHONE 513-753-0000

AR100024



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TECHNICAL TESTING LABORATORIES

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LABORATORY ANALYSIS REPORT

Ray, F. Winton-Delran, NJ/Murphy, Marian

Laboratory Number M8894

Respectfully
Submitted:

STA. S-10 SOUTH SIDE GRAB
PROJ:1777 COURTAULDS PACKAGING

Date Sampled 09/23/91 10:25
Date Received 09/24/91

J. N. Wright

Sampled by CHARLES FISHER
PO # 16-1510

092791 194

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED DATE/TIME/ANALYST
Lead (Total)	3300	10	MG/KG	SW6010	09/26/91 11:39 TM

REF: USEPA; Test Methods For Evaluating Solid Waste; SW-846, 3rd Ed., Nov, 1986.

AR100025

1286 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 304-346-0725
4843 BENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 301-347-7400
4440 GLEN ESTE-WITHAMSVILLE ROAD, SUITE 900, CINCINNATI, OHIO 45248 — TELEPHONE 513-752-0000



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LABORATORY ANALYSIS REPORT

Roy F. Weston-Delran, NJ/Murphy, Marian

Laboratory Number N8895

Respectfully
Submitted:

STA. S-11 SOUTH SIDE GRAB
PROJ:11777 COURTAULDS PACKAGING

Date Sampled 09/23/91 10:32
Date Received 09/24/91

H. N. Wright

Sampled by CHARLES FISHER
CO # 16-1510

092791 1944

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED DATE/TIME/ANALYST
Lead (Total)	330	10	MG/KG	SW6010	09/26/91 11:42 TM

REF: USEPA; Test Methods For Evaluation Solid Waste; SW-846, 3rd Ed., 1986.

AR100026

1258 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 - TELEPHONE 304-348-0725
4843 BENSON AVENUE, BALTIMORE, MARYLAND 21227 - TELEPHONE 301-247-7400
4440 GLEN ESTE-WITHAMSVILLE ROAD, SUITE 900, CINCINNATI, OHIO 45248 - TELEPHONE 513-752-0000



Member of the SGS Group (Société Générale de Surveillance)



TECHNICAL TESTING LABORATORIES

A DIVISION OF COMMERCIAL TESTING & ENGINEERING CO.

LABORATORY ANALYSIS REPORT

City: F. Westcon-Delran, NJ/Murphy, Marian

Laboratory Number 88886

Respectfully
Submitted

ITA: S-2 YELLOW HOUSE GRAB
R0J11777 COURTAULDS' PACKAGING

Date Sampled 09/23/91

Date Received 09/24/91

Sampled by CHARLES FISHER
U N 16-1510

J. N. Wright
092391 150

MATRIX SPIKE/MATRIX SPIKE DUPLICATE ANALYSIS SUMMARY

Parameter Description	RESULT	SPIKE LEVEL	Percent Recovery
MC Matrix Spike/Matrix Spike Duplicates			
Lead(Total)			
Matrix Spike(Result 1)	1.3	1.0	130%
Matrix Spike Duplicate(Result 2)	2.2	1.0	220%
Relative % Difference Between Spikes	51%		

All spike results are corrected for the sample background.

Percent Recovery = $\frac{\text{RESULT}}{\text{SPIKE LEVEL}} \times 100$

Relative Percent difference = $\frac{(\text{Result 1} - \text{Result 2})}{(\text{Result 1} + \text{Result 2})/2} \times 100$ Expressed as an absolute value

AR100027

1250 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 304-346-0725
4645 BENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 301-247-7400
4440 GLEN ESTE-WITHAMSVILLE ROAD, SUITE 900, CINCINNATI, OHIO 45248 — TELEPHONE 513-752-8888



CHAIN-OF-CUSTODY

AR100028

TECHNICAL TESTING LABORATORIES



ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

REC '93
Curtis Bldg., Ste. 4 Walnut St.
Philadelphia, Pennsylvania 19106

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
1777		COUNTY 4 Lds PACKING INC				N8085-N8096	
SAMPLERS: (S-1 to S-12)		Charles Fisher					
STA. NO.	DATE	TIME	GPS	STATION LOCATION			
S1	8/24/93	0915	V	S-W CORNER			
S2	8/24/93	0830	V	Yellow House			Do QA/QC
S3	8/24/93	0735	V	White-Neon Mount			
S4	8/24/93	0940	V	Red Fence			
S5	8/24/93	0835	V	S-W CORNER			
S6	8/24/93	1000	V	SOUTH SIDE			
S7	8/24/93	1010	V	SOUTH SIDE			
S8	8/24/93	1015	V	SOUTH SIDE			
S9	8/24/93	1020	V	SOUTH SIDE			
S10	8/24/93	1025	V	SOUTH SIDE			
S11	8/24/93	1032	V	SOUTH SIDE			
S12	8/24/93	1035	V	CRACKS ROAD			BACKG-RQ-NP
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time	
Charles Fisher		8/24/93 1030					
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time	
		1030		A. Chapman		9/24/93 12:45	
Remarks				Remarks			
				Box copy of Analytical to Chuck Fisher			
				304 243 0897			

Distribution: Original Accompanies Shipment; Copy to Collector Field File

3-20830



TECHNICAL TESTING LABORATORIES

A DIVISION OF COMMERCIAL TESTING & ENGINEERING CO.

LABORATORY ANALYSIS REPORT

Ray F. Weston-Delran, NJ/Murphy, Marian

Laboratory Number N8096

Respectfully
Submitted:

STA. 3-12 BACKGROUND GRAB

Date Sampled 09/23/91 10:45

PROJ: 1177 COURTAULDS PACKAGING

Date Received 09/24/91

Sampled by CHARLES FISHER

Q N 16-1510

J. N. Wright
K093092 1/45

ANALYSIS FOR REQUESTED PARAMETERS
ALL RESULTS ARE ON AN AS RECEIVED BASIS
REVISED REPORT

PARAMETER	RESULT	MDL	UNITS	METHOD	ANALYZED
					DATE/TIME/ANALYST
Lead (Total)	15	10	MG/KG	SW8010	09/26/91 11:46 TH

REF: USEPA; Test Methods For Evaluating Solid Waste; SW-846, 3rd Ed.; Nov, 1986.

1256 GREENBRIER STREET, CHARLESTON, WEST VIRGINIA 25311 — TELEPHONE 301-340-0728

4643 BENSON AVENUE, BALTIMORE, MARYLAND 21227 — TELEPHONE 301-347-7400

4440 GLEN ESTE-WITHAMSVILLE ROAD, SUITE 900, CINCINNATI, OHIO 45246 — TELEPHONE 513-762-0000

AR100030



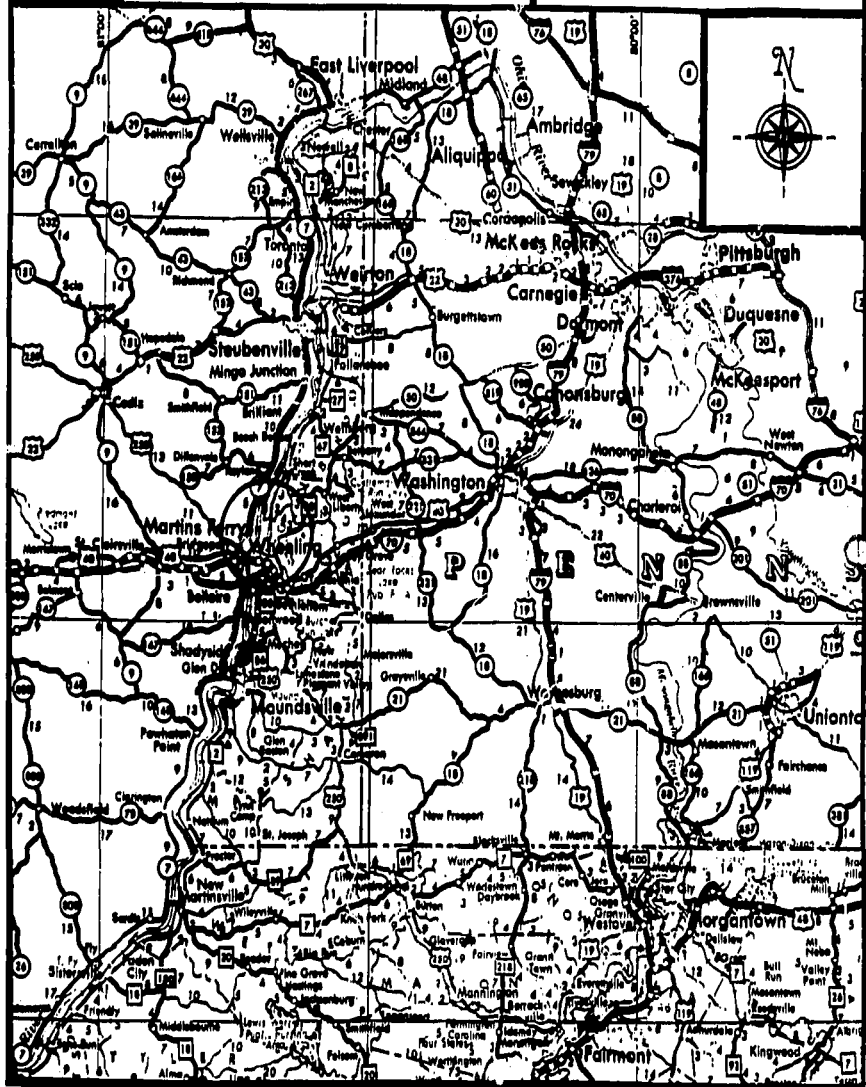
Member of the SGS Group (Société Générale de Surveillance)



WESTON-MPD

TDD Number: 9108-15

PCS Number: 1777



SITE LOCATION MAP

Courtaulds Packaging AR100031

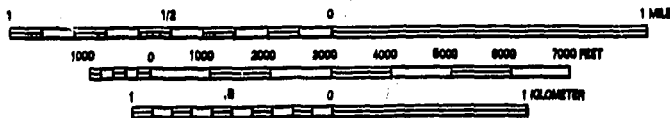
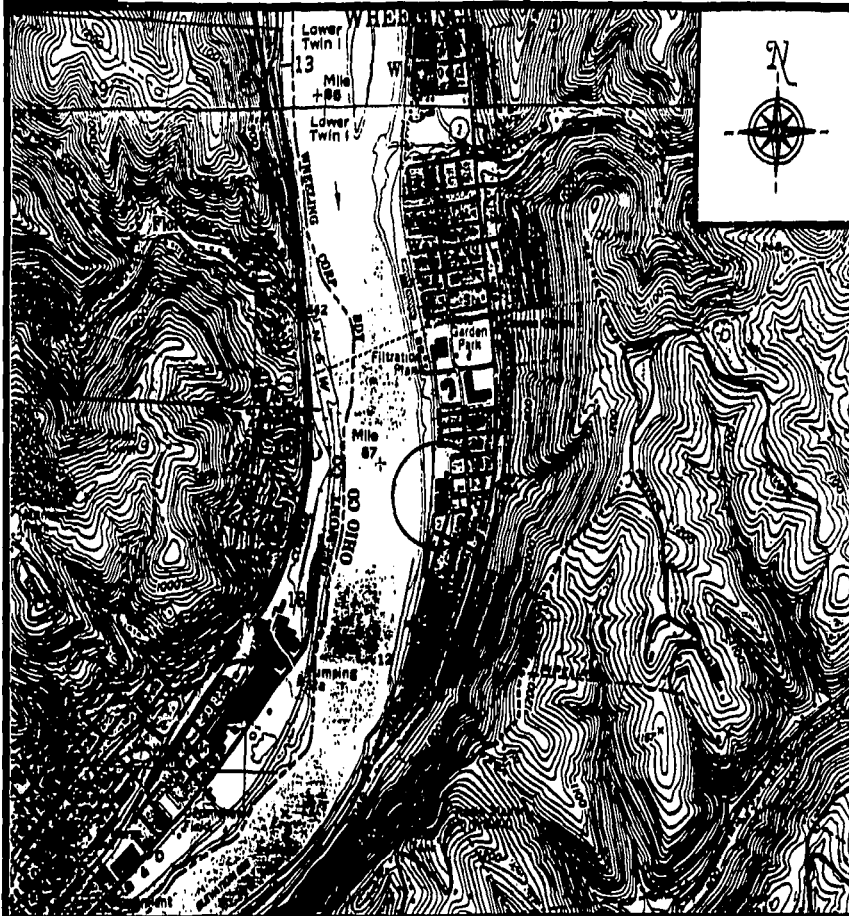
Wheeling, Ohio County, West Virginia



WESTON-MPD

TDD Number: 9108-15

PCS Number: 1777



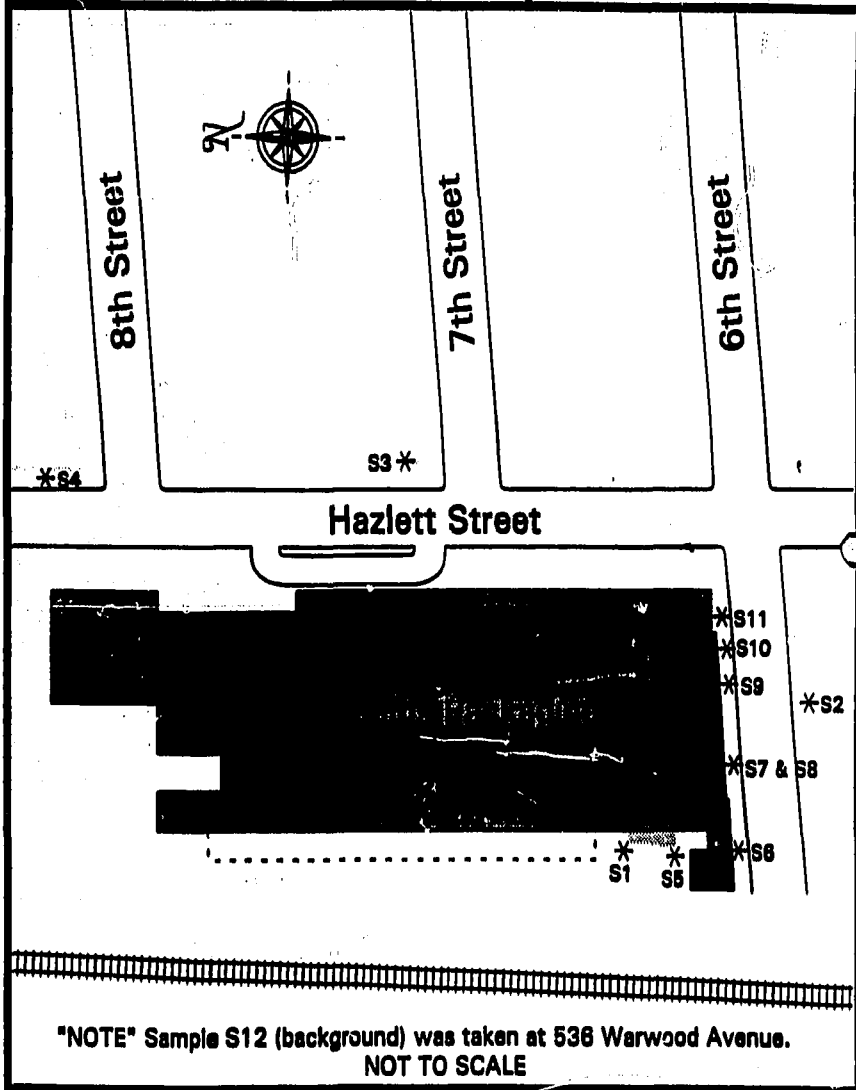
SITE TOPOGRAPHIC MAP
(Wheeling Quadrangle)
Courtaulds Packaging
Wheeling, Ohio County, West Virginia AR 100032



WESTON • MPD

TDD Number: 9108-15

PCS Number: 1777



"NOTE" Sample S12 (background) was taken at 536 Warwood Avenue.
NOT TO SCALE

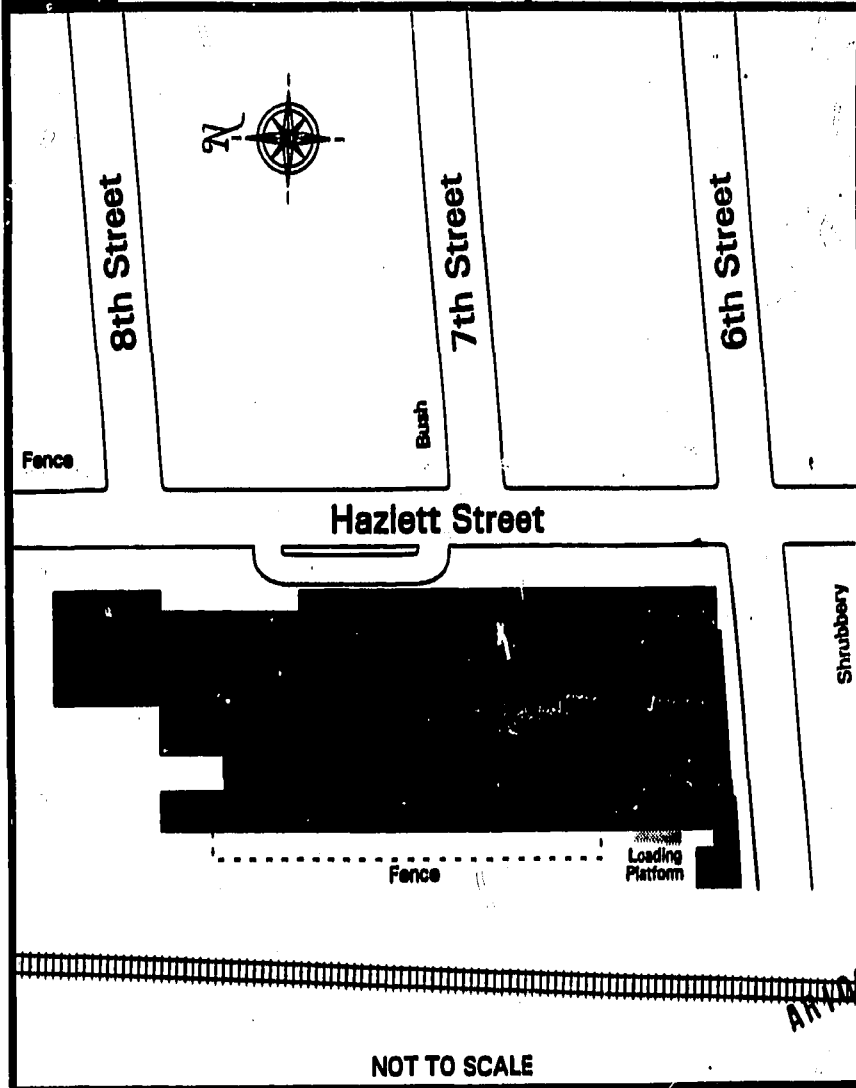
SAMPLING MAP
Courtauld's Packaging AR100033
Wheeling, Ohio County, West Virginia



WESTON-MPD

TDD Number: 9108-15

PCS Number: 1777



SITE SKETCH
Courtaulds Packaging
Wheeling, Ohio County, West Virginia